New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item U1 Operating Scenario: OS Scrubber system controlling emissions from foundry cupola Summary

15		J		1	Т
59	×	57	56	55	#
Maximum allowable VOC emissions, percent of process emissions by weight <15%. [N.J.A.C. 7:27-16.16(d)]	Wood pallets may only be burned in the cupola when broken or when they become unacceptable for reuse by companies which routinely supply the permittee. The source of these broken wood pallets shall be the permittee's site in Phillipsburg exclusively. [N.J.A.C. 7:27-22.16(e)]	The waste paint and used oil to be burned in the cupola shall only be process from onsite generated sources. [N.J.A.C. 7:27-22.16(e)]	Maximum sulfur content of the non-hazardous used oil burned in the cupola based on the preconstruction permit. Sulfur content of waste oil <=0.5% by weight. [N.J.A.C. 7:27-22.16(e)]	Maximum amount of non-hazardous used oil burned in the cupola based on the preconstruction permit. Non-hazardous used oil <=1000 gallons/month. [N.J.A.C. 7:27-22.16(e)]	Applicable Requirement
Other: Maintain process records to demonstrate that the VOC emission rate from actual operations do not exceed the permitted emission rate. [N.J.A.C. 7:27-16.16(g)lii]	None.	None.	Other: Sulfur content of non-hazardous waste oil initially. [N.J.A.C. 7:27-22.16(o)]	Other: Monitored by non-hazardous oil feed rate each occurrence during operation.	Monitoring Requirement
Other: Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operation does not exceed the VOC emission rate under worst case operating conditions. Once initially, [N.J.A.C. 7:27-16.16(g)2ii]	None.	None.	Other: Keep certificate of analysis showing sulfur content of the non-hazardous used oil. [N.J.A.C. 7:27-22.16(o)]	Other: Keep records of non-hazardous oil burned in the cupola per occurrence by manual logging. [N.J.A.C. 7:27-22.16(e)]	Record Keeping Requirement
None.	None.	None.	None.	None.	Submittal/Action Requirement

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item
Operating Scenario: SO OS Scrubber system controlling emissions from foundry cupola Summary

Ref.	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
60	Maintain the records required by [N.J.A.C. 7:27-16.16(g)] for a period of no less than five years [N. I. A. C. 7:27-16.22(c)]	None.	Other: Manual logging of parameter. Records to be filed or readily accessible	None.
61	The permittee shall implement a mercury minimization program, including setting specifications for scrap which will	Other: Monitor scrap, per delivery. [N.J.A.C. 7:27-22.16(o)]	Other: Maintain a list of scrap deliveries with the date of each delivery, the general	None.
	minimize mercury in the scrap, and maintain records of scrap deliveries. [N.J.A.C. 7:27-22.16(a)]		type and amount of scrap received, and the name of the supplier. Notify each scrap supplier that: (1) the scrap must conform with the permittee's mercury specifications; (2) mercury must be removed from the scrap, if any (for example mercury switches). Records of scrap deliveries and scrap supplier notifications shall be	
62	The carbon monoxide and oxygen monitors shall comply with the provisions of 40 CFR 60 Appendix B an F. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
Possil	Possible accentable language for mercury requirements	Danieromonta		

Possible acceptable language for mercury requirements.

New Jersey Department of Environmental Protection **Facility Specific Requirements**

Subject Item Core machines molding sand cores

Subject Item U2 Operating Scenario: OS Summary

Dof				
#4.	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
——— ——	Maximum allowable particulate emission rate based on 99% collection efficiency	None.	None.	None.
	<=2.72 lb/hr for all sources. [N.J.A.C. 7:27-6.2(a)]			
2	Visible emission not greater than 20% opacity, excusive of visible condensed	None.	None.	None.
	water vapor, except for three minute period.			
	[N.J.A.C. 7:27-6.2(d)] & [N.J.A.C. 7:27-6.2(e)			
_ ω	Operating pressure drop range for baghouse CD5, from operating permit application	Monitored by pressure drop Instrument	Other: Recordkeeping by manual logging of	
	Pressure drop >=1 and pressure drop <=6 inches w.c. [N.J.A.C. 7:27-22.16(a)]	determination. [N.J.A.C. 7:27-22.16(0)]	pressure drop once per month. [N.J.A.C. 7:27-22.16(o)]	
4	Maximum annual emission from	None.	Mono	
	preconstruction permit. TSP <= 0.54		Nolle.	None.
	tons/year. [N.J.A.C. 7:27-22.16(e)]			
V	Maximum annual emission from	None.	Mone	
	preconstruction permit. PM-10 <= 0.54		INOIE.	None.
7	tons/year. [N.J.A.C. 7:27-22.16(e)]			
0	Maximum operating hours is limited to 4000 hours/year per piece of equipment	Monitored by production records. [N.J.A.C.	Other: Record keeping by manual logging	None.
	[N.J.A.C. 7:27-22.16(e)]	1.21-22.10(0)J	of hours of operation monthly. [N.J.A.C.	XXX.
7	Raw material (coated sand) processing rate	Monitored by production records, IN.I.A.C.	_	7.7
	for all core molding machines <= 57 tons	7:27-22.16(o)]	ng	None.
	daily maximum total usage for all	ž	IN I A C 7:27-22 16(c)	
	machines) [N.J.A.C. 7:27-22.16(e)		[-100.21.00.1.21.22.10(0)]	
Sonit	Monitor only the total arrange and 1			

necessary to impose any more restrictive or burdensome requirements. Monitor only the total average sand used each day based on monthly records of usage. Since the emissions all go to the baghouse it doesn't seem

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item U2 Core machines molding sand cores Operating Scenario: OS1 Core Molding Machine No.1

Ref.				
#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
	Maximum emission rate from operating	None		THOMAS TANGENT TANGENT THE PROPERTY OF THE PARTY OF THE P
	permit application. PM-10 <= 0.057 lb/hr.	INCIR.	None.	None.
	[N.J.A.C. 7:27-22.16(a)]			
2	Maximum emission rate from	None	NT-	A
	preconstruction permit. TSP <= 0.057 lb/hr.		None.	None.
	[N.J.A.C. 7:27-22.16(e)]			
Chang	Changed allowable emissions from 0.064 to 0.057 lbs/hr for 0.000	0 0 057 lbe/br for 0 va 0 0000 month		
- acesan	See this state of this state of the see	C C C C C C C C C C C C C C C C C C C		

0.064 to 0.05 / lbs/hr for 9 vs. 8 core machines.

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item U2 Core machines molding sand cores Operating Scenario: OS1 Core Molding Machine No.2

#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
)—1	Maximum emission rate from operating	None		THAIR MAN TO THE PARTY OF THE P
	permit application. PM-10 <= 0.057 lb/hr.	TANTE.	None.	None.
	[N.J.A.C. 7:27-22.16(a)]			
2	Maximum emission rate from	None	NT.	
	preconstruction permit. TSP <=0.057 lb/hr.	A TOMAS.	None.	None.
	[N.J.A.C. 7:27-22.16(e)]			
Chang	Changed allowable emissions from 0.064 to 0.057 lb-A- 6-0	0 0 0 57 11-11-10-10 0 11		
STITISTIC)	TOTAL STORY OF THE	Ollow he tor U was a command	1	

sions from 0.064 to 0.057 ibs/m for 9 vs. 8 core machines.

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item U2 Core machines molding sand cores Operating Scenario: OS1 Core Molding Machine No.3

#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
	Maximum emission rate from operating	None		Section and the state of the Children
	permit application. PM-10 <=0.057 lb/hr.	Nolle.	None.	None.
	[N.J.A.C. 7:27-22.16(a)]			
2	Maximum emission rate from	None	N	
	preconstruction permit. TSP <=0.057 lb/hr.		Notic.	None.
	[N.J.A.C. 7:27-22.16(e)]			
Chan	Changed allowable emissions from 0.061 to 0.067 lbs/bs-600	0 0 057 152/5- 5-0 - 0 - 1:		

Changed allowable emissions from 0.064 to 0.057 lbs/hr for 9 vs. 8 core machines.

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item U2 Core machines molding sand cores Operating Scenario: OS1 Core Molding Machine No.4

##	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
Н	Maximum emission rate from operating permit application. PM-10 <=0.057 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Maxinium emission rate from preconstruction permit. TSP <=0.057 lb/hr. [N.J.A.C. 7:27-22,16(e)]	None.	None.	None.
Chan	Changed allowable emissions from 0.061 to 0.057 the for 0.000 comments	0 057 lbg/b= for 0 22 0 22 22 22		

Changed anowable emissions from 0.064 to 0.05 / lbs/hr for 9 vs. 8 core machines.

New Jersey Department of Environmental Protection **Facility Specific Requirements**

Subject Item Operating Scenario: OS1 U2 Core Molding Machine No.5 Core machines molding sand cores

Ref. # Maximum emission rate from preconstruction permit. TSP <=0.057 lb/hr. [N.J.A.C. 7:27-22,16(e)] Maximum emission rate from operating permit application. PM-10 <=0.057 lb/hr. [N.J.A.C. 7:27-22.16(a)] **Applicable Requirement** None. None. **Monitoring Requirement** None. None. Record Keeping Requirement None. None. Submittal/Action Requirement

Changed allowable emissions from 0.064 to 0.057 lbs/hr for 9 vs. 8 core machines.

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item U2 Core machines molding sand cores Operating Scenario: OS1 Core Molding Machine No.6

Z.D.				
#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
1	Maximum emission rate from operating	None		P
Đ	permit application. PM-10 <= 0.057 lb/hr.	NoIIc:	None.	None.
	[N.J.A.C. 7:27-22.16(a)]			
2	Maximum emission rate from	None	AT.	
,	preconstruction permit. TSP <=0.057 lb/hr	INOIR.	None.	None.
	[N.J.A.C. 7:27-22.16(e)]			
Chan	Changed allowable emissions from 0.064 to 0.057 lb-1b-5-0-0	0 057 11-11-5-0-0		
		Company to the total of the total		

Changed allowable emissions from 0.004 to 0.05/ lbs/hr for 9 vs. 8 core machines.

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item U2 Core machines molding sand cores Operating Scenario: OS1 Core Molding Machine No.7

#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
_	Maximum emission rate from operating	Mone	7.7	
	permit application. PM-10 <=0.057 lb/hr.	None	None.	None.
	[N.J.A.C. 7:27-22.16(a)]			
2	Maximum emission rate from	None	None	77
	preconstruction permit. TSP <=0.057 lb/hr.		A TOARE.	Nolle.
	[N.J.A.C. 7:27-22.16(e)]			je.
Chan	Changed allowable emissions from 0.061 to 0.067 lb-b-6-0	005711-1-6-0-0		

Changed allowable emissions from 0.064 to 0.057 lbs/hr for 9 vs. 8 core machines.

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item U2 Core machines molding sand cores
Operating Scenario: OS1 Core Molding Machine No.8

##	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
	Maximum emission rate from operating	None	11	,
78	permit application. PM-10 <= 0.057 lb/hr.	NOTE:	None.	None.
	[N.J.A.C. 7:27-22.16(a)]			
2	Maximum emission rate from	None	None	7.7
	preconstruction permit. TSP <=0.057 lb/hr.	I TOARE.	Notic.	None.
	[N.J.A.C. 7:27-22.16(e)]			
Chans	Changed allowable emissions from 0.064 to 0.057 lbs/br for 0.058 core monting	0 0 057 lhe/hr for 0 ve 9 core mach:		

wable emissions from 0.064 to 0.057 lbs/mr for 9 vs. 8 core machines.

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item U2 Core machines molding sand cores Operating Scenario: OS1 Core Molding Machine No.9

#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
1	Maximum emission rate from operating permit application. PM-10 <= 0.057 lb/hr.	None.	None.	None.
2	Maximum emission rate from preconstruction permit. TSP <=0.057 lb/hr.	None.	None.	None.
4 3 3 7	A 3 1 C 3 C 11: 3 C 5			

Add Core Molding Machine No. 9

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item U3 Operating Scenario: OS Summary Melt Center Baghouse controlling launder & ladle emissions

#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
1	Maximum allowable particulate emission rate based on 0.02 grains per SCF=25.6 lb/hr. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.
2	Opacity <=20% except for emissions which	None.	None.	None.
	are greater than 20% opacity, exclusive of condensed water vapor, for a period of not longer than three (3) minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)]		a volume.	Notice

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item U3
Operating Scenario: OS Summary Melt Center Baghouse controlling launder & ladle emissions

Mata Das	U	4	3 7	#el.
Dogardhaanina d	preconstruction permit Carbon Monoxide <=36 tons/yr. [N.J.A.C. 7:27-22.16(e)]	preconstruction permit TSP <=9.43 tons/yr. [N.J.A.C. 7:27-22.16(e)]	The permittee shall not use the equipment in a manner which will cause visible emissions to exceed 10%, except for a period of 30 minutes during startup and shutdown when opacity shall not exceed 20%, exclusive of condensed water vapor. [N.J.A.C. 7:27-22.16(e)]	Applicable Requirement
	None.	None.		Monitoring Requirement
	None.	None.	rdkeepin neter each ittee mu hate and resiston points of equiton chive act cable; (7 noted; an acting in (6))]	Record Keeping Requirement
	None.	None.	None.	Submittel/Action Requirement

Note Recordkeeping change.

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item U3 Operating Scenario: OS Summary Melt Center Baghouse controlling launder & ladle emissions

# Ref.	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
6	Maximum annual emission rate from	None	N	
1	preconstruction permit PM10 (total) <=9.43	TAOTIC.	NOTE:	None.
1	(OIIS/YI. [N.J.A.C. /:2/-22.16(a)]			
7	Maximum annual emission rate from	None.	None.	None
	preconstruction permit SO2 <=30.15			INOIRC.
	tons/yr. [N.J.A.C. 7:27-22.16(e)]			
·	Maximum annual emission rate from	None.	None.	None
	preconstruction permit Nitrogen Oxides			Ivoile.
	<=8.53 tons/yr. [N.J.A.C. 7:27-22.16(e)]			
9	Maximum annual emission rate from	None.	None	Vione
	preconstruction permit VOC (total) <=61.2			I WILC.
	tons/yr. [N.J.A.C. 7:27-22.16(e)]			
10	Maximum annual emission rate from	None.	None.	None
	preconstruction permit HAPs (total)			TACIE.
	<=0.070 tons/yr. [N.J.A.C. 7:27-22.16(e)]			
11	Maximum annual emission rate from	None.	None.	Ninna
	preconstruction permit Chromium			INDIC.
	Emissions <=0.002462 tons/yr. [N.J.A.C.			
	7:27-22.16(e)]			
12	Maximum annual emission rate from	None.	None.	None
	preconstruction permit Lead Emissions	÷		T INTEG
	<=0.0217 tons/yr. [N.J.A.C. 7:27-22.16(e)]			
13	Maximum annual emission rate from	None.	None.	None
	preconstruction permit Nickel Emissions		a Canada	IVOIC.
	<=0.04622 tons/yr. [N.J.A.C. 7:27-	*		
	22.16(e)]			
14	Emission shall vent to the baghouse central	None.	None	Mana
	device based on preconstruction permit	-	TIOLE.	Nolle.
	application. [N.J.A.C. 7:27-22.16(e)]			
Z	VIDED may raming those showers he made it is			The second of th

NJDEP may require these changes be made via a subchapter 8 permit modification.

New Jersey Department of Environmental Protection Facility Specific Requirements

Operating Scenario: Subject Item 03 Summary Melt Center Baghouse controlling launder & ladle emissions

18 17 16 15 Ref. # 22.16(o)] five years prior to submitting the operating permit renewal application. [N.J.A.C. 7:27stack test: Front half sampling train only. Conduct comprehensive stack test every lb/hr. [N.J.A.C. 7:27-22.16(e)] Note: PM10 Maximum emission rate from operating of w.c. and pressure drop across the CD4, from the preconstruction permit. permit application. PM-10 (total) =5.24 7:27-22.16(e)] Baghouse >=1 inches of w.c. [N.J.A.C. Pressure drop across Baghouse <=6 inches manufacturer based on preconstruction permit. [N.J.A.C. 7:27-22.16(e)] removal efficiency as specified by the necessary to achieve the required particulate maintenance and replacement on a schedule The permittee shall conduct bag cleaning, The pressure drop across the Baghouse, Applicable Requirement years, based on any 60 minute period. (See subject item PT-3 Ref. #1 for details). [N.J. None. A.C. 7:27-22.16(o)] Monitored by stack emission testing every 5 approximately mid-scale of the full range ranged such that the allowable value is specifications. The monitor(s) shall be accordance with the manufacturer's current/voltage output. [N.J.A.C. 7:27calibrate and maintain the monitor(s) in determination. The permittee shall install, continuously, based on an instantaneous Monitored by pressure drop Instrument **Monitoring Requirement** 22.16(o)] Ref. #1 for details). [N.J.A.C. 7:27required frequency. (See subject item PT-3 Recordkeeping by stack test results at no None. Recordkeeping by manual logging of [N.J.A.C. 7:27-22.16(e)] permittee shall record each instance of bag parameter upon occurrence of event. The Recordkeeping by manual logging of parameter once per day during operation.
[N.J.A.C. 7:27-22.16(e)] maintenance and bag replacement. **Record Keeping Requirement** within 45 days after performing the stack approval, the applicant must schedule a department may approve an extension for test. [N.J.A.C. 7:27-22.16(o)] The and submit results: As per the approved the stack test results submittal. [N.J.A.C The stack test report must be submitted mutually acceptable test date with BTS. renewal application. Upon protocol prior to submitting Operating Permit Trenton, NJ 08625-0437, at least one year shall be submitted to the Bureau of schedule, a protocol to conduct stack test Stack Test - Submit protocol, conduct test None Technical Services (BTS), at PO Box 437, None. Submittal/Action Requirement

Note PM10 Stack Sampling Condition

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item
Operating Scenario: OS OS Summary Melt Center Baghouse controlling launder & ladle emissions

# 1	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Possissement
19	Particulate Control Efficiency >=99% from	None	None	None
	preconstruction permit. [N.J.A.C. 7:27-22.16(e)]		TAOTIC	None.
20	Maximum emission rate from	Monitored by stack emission testing once	Decording in the state of the s	
*	preconstruction permit. Sulfur Dioxide (SO2) <=16.75 lb/hr. [N.J.A.C. 7:27-	initially and every 5 years, based on any 60	required frequency. (See subject item PT-3	and submit results: As per the approved
	22.16(e)]	details). [N.J.A.C. 7:27-22.16(0)]	ior details). [N.J.A.C. 7:27-22.16(o)]	schedule, a protocol to conduct stack test shall be submitted to the Bureau of
				Technical Services (BTS), at PO Box 437,
-				rrior to submitting Operating Descrit
				renewal application. Upon protocol
				approval, the applicant must schedule a
				mutually acceptable test date with BTS.
				The stack test report must be submitted
				within 45 days after performing the stack
200				test. [N.J.A.C. 7:27-22.16(o)] The
				department may approve an extension for
				the stack test results submittal. [N.J.A.C.
Moto changes				7:27-22.19(d)]

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item U3
Operating Scenario: OS Summary Melt Center Baghouse controlling launder & ladle emissions

Ref.

	- t	3							21	##
	preconstruction permit. Carbon Monoxide (CO) <=20 lb/hr. [N.J.A.C. 7:27-22.16(e)]	Maximum omiccion ante 6						preconstruction permit. TSP (total) <=5.24 lb/hr. [N.J.A.C. 7:27-22.16(e)]	Maximum emission rate from	Applicable Requirement
_	Monitored by stack emission testing every 5 years, based on any 60 minute period. (See subject item PT-3, Ref. #1 for details). [N.J.A.C. 7:27-22.16(0)]					2	#1 & 2 for details). [N.J.A.C. 7:27- 22.16(e)]	initially and every 5 years, based on any 60 minute period. (See subject item PT-3, Ref.	Monitored by stack emission testing once	Monitoring Requirement
	Recordkeeping by stack test results upon occurrence of event. (See subject item PT-3, Ref. #1 for details). [N.J.A.C. 7:27-22.16(o)]						22.16(0)]	occrence of event. (See subject item PT-3, Ref. #1 for details) IN LAC 7-27	Recordization by stools tost and the	Record Keeping Requirement
THE PART CALL	Stack Test – Submit protocol, conduct test and submit results: As per the approved schedule, a protocol to conduct stack test shall be submitted to the Bureau of Technical Services (BTS), at PO Box 437, Trenton, NJ 08625-0437, at least one year prior to submitting Operating Permit renewal application. Upon protocol approval, the application must schedule a mutually acceptable test date with BTS. The stack test report must be submitted within 45 days after performing the stack test. [N.J.A.C. 7:27-22.16(o)] The department may approve an extension for the stack test results submittal. [N.J.A.C.	the stack test results submittal. [N.J.A.C. 7:27-22, 19(d)]	within 45 days after performing the stack test. [N.J.A.C. 7:27-22.16(o)] The department may approve an extension for	approval, the applicant must schedule a mutually acceptable test date with BTS. The stack test report must be submitted	prior to submitting Operating Permit renewal application. Upon protocol	Technical Services (BTS), at PO Box 437, Trenton, NJ 08625-0437, at least one year	shall be submitted to the Bureau of	Stack Lest – Submit protocol, conduct test and submit results: As per the approved	The state of the s	Submittal/Action Requirement

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item U3 Operating Scenario: OS Summary Melt Center Baghouse controlling launder & ladle emissions

# Ref.	23	24	25
Applicable Requirement	Maximum emission rate from preconstruction permit. Nitrogen Oxides (NOX) <=4.74 lb/hr. [N.J.A.C. 7:27-22.16(e)]	preconstruction permit. VOC (total) <=34 lb/hr. [N.J.A.C. 7:27-22.16(e)]	Maximum emission rate from preconstruction permit. HAPs (total) <=0.0391 lb/hr. [N.J.A.C. 7:27-22.16(e)]
Monitoring Requirement	Monitored by stack emission testing once initially and every 5 years, based on any 60 minute period. (See subject item PT-3, Ref. #1 for details). [N.J.A.C. 7:27-22.16(0)]	Monitored by stack emission testing once initially and every 5 years, based on any 60 minute period. (See subject item PT-3, Ref. #1 for details). [N.J.A.C. 7:27-22.16(o)]	None.
Record Keeping Requirement	Recordkeeping by stack test results upon occurrence of event. (See subject item PT-3, Ref. # 1 for details). [N.J.A.C. 7:27-22.16(0)]	Recordkeeping by stack test results upon occurrence of event. (See subject item PT-3, Ref. # 1 for details). [N.J.A.C. 7:27-22.16(o)]	None.
Submittal/Action Requirement	Stack Test – Submit protocol, conduct test and submit results: As per the approved schedule, a protocol to conduct stack test shall be submitted to the Bureau of Technical Services (BTS), at PO Box 437, Trenton, NJ 08625-0437, at least one year prior to submitting Operating Permit renewal application. Upon protocol approval, the applicant must schedule a mutually acceptable test date with BTS. The stack test report must be submitted within 45 days after performing the stack test. [N.J.A.C. 7:27-22.16(o)] The department may approve an extension for the stack test results submittal. [N.J.A.C. 7:27-22.19(d)]	Stack Test – Submit protocol, conduct test and submit results: As per the approved schedule, a protocol to conduct stack test shall be submitted to the Burean of Technical Services (BTS), at PO Box 437, Trenton, NJ 08625-0437, at least one year prior to submitting Operating Permit renewal application. Upon protocol approval, the applicant must schedule a mutually acceptable test date with BTS. The stack test report must be submitted within 45 days after performing the stack test. [N.J.A.C. 727-22.16(o)] The department may approve an extension for the stack test results submittal. [N.J.A.C. 727-22.10(d)]	None.

Note changes.

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item
Operating Scenario: 0S 0S Summary Melt Center Baghouse controlling launder & ladle emissions

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item U3 Operating Scenario: OS Melt Center Baghouse controlling launder & ladle emissions Summary

# 21.	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
28	Maximum emission rate from preconstruction permit. Nickel emissions <= 0.02568 lb/hr. [N.J.A.C. 7:27-22.16(e)]	Monitored by stack emission testing once initially and every 5 years, based on any 60 minute period. (See subject item PT-3, Ref. #1 & 2 for details). [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by stack test results upon occurrence of event. (See subject item PT-3, Ref. # 1 & 2 for details). [N.J.A.C. 7:27-22.16(o)]	Stack Test – Submit protocol, conduct test and submit results: As per the approved schedule, a protocol to conduct stack test shall be submitted to the Bureau of Technical Services (BTS), at PO Box 437, Trenton, NJ 08625-0437, at least one year prior to submitting Operating Permit renewal application. Upon protocol approval, the applicant must schedule a mutually acceptable test date with BTS. The stack test report must be submitted within 45 days after performing the stack test. [N.J.A.C. 7:27-22.16(o)] The department may approve an extension for the stack test results submittal. [N.J.A.C. 7:27-22.19(d)]
	preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	Monitored by gravimetric monitoring once per cupola charge during operation, based on hourly averaging period. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter once per hour during operation. [N.J.A.C. 7:27-22.16(o)]	None.
30	Te production hours are limited to 3600 hours/year per piece of equipment. [N.J.A.C. 7:27-22.16(e)]	Monitored by hourly production record. [N.J.A.C. 7:27-22.16(0)]	Recordkeeping by manual logging of parameter daily. [N.J.A.C. 7:27-22.16(o)]	None.
Note	Note changes.			

Note changes.

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item
Operating Scenario: U3 OS1 Iron launder conveying molten iron to ladle Melt Center Baghouse controlling launder & ladle emissions

Ref.				
#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
—	Raw material (Iron) processing rate from	Monitored by gravimatric monitories		The state of the s
	preconstruction permit <=150,000 lb/hr.	per cupola charge during operation, based	recordkeeping by manual logging of parameter daily. [N.J.A.C. 7:27-22.16(o)]	None.
_	[N.J.A.C. /:2/-22.16(e)]	on hourly averaging period. [N.J.A.C. 7:27-		
		22.16(o)]		
200	Note changes			

Note changes.

Should other sources (OSs) be included? e.g. ladles, casting machines etc. from preconstruction permit.

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item U4
Operating Scenario: OS Annealing Oven for Cast Pipe

Summary

Ref.				
#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
-	Maximum allowable particulate emission rate based on 0.02 gr. per SCF=0.5 lb/hr. [N.J.A.C. 7:27-6.2(a)]	None.	None.	None.
2	Opacity <=20% except for emissions which	None.	None	NT.
	are greater than 20% opacity, exclusive of		TANTE.	None.
	condense water vapor, for a period of not longer than three (3) minutes in our			
	consecutive 30 minute period. [N.J.A.C.			
	7:27-6.2(d)] & [N.J.A.C. 7:27-6.2(e)]			
ω	Maximum Gross heat input from operating	Other: Fuel burner rated capacity IN I A C	None	17
	permit application = 91.3 MMBTU/hr. [N.J.A.C. 7:27-22.16(A)]	7:27-22.16(o)]	TIVAK	None
4	Raw material processing rate from	None.	None	77
	operating permit application <=150,000		A COART	Noile
5	Inspect the burner(s), and clean or replace	None	N	
	any components of the burner(s) as	A VOLID.	None.	None.
	necessary to minimize total emissions of			
	NOx and Carbon Monoxide (CO).			
6	Inspect the flame pattern and make any	None		
	adjustments to the burner(s) necessary to	A TOARG.	None.	None.
	optimize the flame pattern and inspect the			
	system controlling the air-to-fuel ratio, and			
	ensure that it is correctly calibrated and			
**************************************	functioning properly. [N.J.A.C. 7:27-			
1	19.13(n)			
7	Maximum annual emission rate based on	None.	None	NT.
	271 MMft^3 annual natural gas usage from		I VOITO.	None.
	operating permit application. VOC <=			
	0.195 tons/year. [N.J.A.C. 7:27-22.16(a)]			
Since	Since natural pas consumntion not nine throughout determines the	merchanis datament is it		

Since natural gas consumption, not pipe throughput determines the emissions there is no reason for monitoring or record keeping requirements.

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item U4 Operating Scenario: OS Annealing Oven for Cast Pipe

Summary

Ref.	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action December
8	Maximum annual emission rate based on	None.	None.	None Submitted Action Requirement
	2/1 MMft^3 annual natural gas usage from		ATOMAS.	None.
	operating permit application. PM-10			
	<=0.070 tons/year. [N.J.A.C. 7:27-22.16(a)]			
9	Maximum annual emission rate based on	None.	Vone	
	271 MMft^3 annual natural gas usage from		Notice	None.
	operating permit application. SOx <=0.042			
	tons/year. [N.J.A.C. 7:27-22,16(a)]			
10	Maximum annual emission rate based on	None.	Vono	
	271 MMft^3 annual natural gas usage from		NOTE.	None.
	operating permit application. TSP <=0.070			
=	Maximum annual amission anta hand	11		
	271 MMft^3 annual natural gas usage from	THOLES.	None.	None.
	operating permit application. NOx <=9.73			
	tons/year. [N.J.A.C. 7:27-22.16(a)]			
12	Maximum annual emission rate based on	None.	None	4
	271 MMft^3 annual natural gas usage from		THOLE.	None.
	operating permit application. CO <= 2.433			
	tons/year. [N.J.A.C. 7:27-22.16(a)]			*
13	Maximum annual emission rate based from	None.	None	
	operating permit application. PM-10 <=		A TOLKE.	None.
14	Maximum (1.3.A.C. 1.21-22.10(a))			
7	iviaxilium amuai emission rate based from	None.	None.	Mone
	Ib/hr. [N.J.A.C. 7:27-22, 16(a)]			INDIE.
15	Maximum annual emission rate based from	None	NT.	
	operating permit application. NOx <=	a roase.	None.	None.
	5.406 lb/hr. [N.J.A.C. 7:27-22.16(a)]			•
16	d from	None.	None	
			INOILE:	None.
	1b/hr. [N.J.A.C. 7:27-22.16(a)]			

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item U4 Annealing Oven for Cast Pipe Operating Scenario: OS Summary

 ਸ਼ਹ	Ref.	Applicable Requirement	Monitoring Requirement	Record Keening Requirement	7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
17	4	Maximum annual emission rate based from	Mone	T 0 - 1 - 1 - 1 - 1 - 1	Sapantean Action Inclinitient
		operating permit application. VOC <=	h Cabe	Note:	None.
		0.108 lb/hr. [N.J.A.C. 7:27-22.16(a)]			
18		Natural Gas Usage <= 271 MMft^3	Natural Gas Usage: Monitored by fuel	Other: Recordkeeping by manual logging	None
		Maximum annual fuel usage rate from NOx	flow/firing rate instrument continuously,	fuel usage monthly or computer data entry.	TAOTIC:
		months IN I A C 7:27 10 13(2)	based on a consecutive 12 month period	[N.J.A.C. 7:27-19.13(n)] & [N.J.A.C. 7:27-	
		шонив. [14. <i>3.1</i> 3.10. /.2/+13,13(ц)]	(roung 1 month basis) [N.J.A.C. 7:27- 19.13(n)] & [N.J.A.C. 7:27-22,16(o)]	22.16(o)]	
19		Fuel type is limited to natural gas only from	None.	None	71
		NOx control plan. [N.J.A.C. 7:27-19.13(n)]		TAOTIC:	None.
20		Adjust the combustion process in	None.	Other Record the date of the adjustment	NT.
		accordance with N.J.A.C. 7:27-19.16 each		and the times at which it become and ended:	None.
	_	calendar year. Record this adjustment		the name title and affiliation of the person	
		event. [N.J.A.C. 7:27-19.13(n)]		who made the adjustment. [N.J.A.C. 7:27-	
2		An exceedance of an emission limit which		22.16(0)	
1		occurs, during an adjustment of the	None.	None.	None.
	· -	combustion process is not a violation of this			
	-	adjustment begins, and after it has been			
	_	completed, the maximum NOx emission	-		
		rate based on NOx control plan of NOx			
	7 60	shall not exceed 0.15 lbs/MMBTU.			
3					
22			None.	None.	None
	n ~	(NOx) from Annealing Oven shall not exceed 0.15 lbs/MMRTII from the	-0.2		INOILE
-		TO TO TOWN THE PARTY OF THE PAR			
	- · · ·	approved NOx Control Plan. [N.J.A.C.			
3	Mote. 7	The Annesting Oven does not have			
1		THE TAMEGAMIS OF THE TOTAL BANKS STATE OF THE PARTY OF TH	The Annicanity Oven does not have a common stack venting outside the highling	milding There are (1) wents located as	1 1 1 1 1 1

that discharge inside the building at temperatures above 1000 deg. F. There is no viable means to conduct sampling to verify burner performance.

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item U4 Operating Scenario: OS Annealing Oven for Cast Pipe Summary

#	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
23	Maximum allowable rate for VOC <=3.5 lb/hr. [N.J.A.C. 7:27-16.16(c)]	Other: Maintain process records to demonstrate that the VOC emission rate from actual operations do not exceed the permitted emission rate. [N.J.A.C. 7:27-16.16(g)1ii]	Other: Conduct an analysis of the source operation, which demonstrates that, under worst case operating conditions that maximize the VOC emissions after any control, the VOC emission rate of the source operation is in compliance with this section; and maintain process records sufficient to demonstrate whether the VOC emission rate of the source operation from actual operations does not exceed the VOC emission rate under worst case operating conditions, IN. J. A. C. 777-16 27(a)	None.
22	Maintain the records required by N.J.A.C. 7:27-16.16(g) for a period of no less than five years. [N.J.A.C. 7:27-16.22(a)]	None.	Other: Manual logging of parameter. Records to be manually logged or readily accessible in computer memory. [N.J.A.C. 7:27-16.22(a)]	None.
Zote	Note changes.			

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item
Operating Scenario: OS OU Summary Finishing Baghouse - Cutting the pipe, grinding the bell and removal of sand

Ref.	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittel/Action Dogwinson
1	Visible emission not greater than 20%	None.	None.	None.
	opacity, exclusive of visible condensed			
	water vapor, except for three minute period. [N.J.A.C. 7:27-6 2/d]] & [N.J.A.C. 7:27-			
	6.2(e)]			
2	Maximum annual particulate emission limit	None.	None	Tons
	from preconstruction permit TSP <=2.363		A TOARC.	Notice.
	tons/year. [N.J.A.C. 7:27-22.16(e)]			
w	Maximum annual emission limit from	None.	None	T
	operating permit application of PM-10		A TOLLO.	None.
	<=2.363 tons/year. [N.J.A.C. 7:27-22.16(a)]			
4	Operating pressure drop range across the	Monitored by pressure drop Instrument	Recordkeeping by manual logging of	None
	baghouse based on preconstruction permit.	continuously, based on an instantaneous	parameter once per operating shift	None.
-	Pressure drop >=2 and pressure drop <=6	determination during operation. [N.J.A.C.	N.J.A.C. 7:27-22 16(a)]	
	inches w.c. [N.J.A.C. 7:27-22.16(e)]	7:27-22.16(o)]	[V_2\2]	
U	The permittee shall conduct bag cleaning,	None.	Recordkeeping by manual logging of	None
	maintenance and replacement on a schedule		parameter upon occurrence of event. The	ATOMO.
	necessary to achieve the required particulate		permittee shall record each instance of hag	
	removal efficiency as specified by the		maintenance and has replacement	
	manufacturer. [N.J.A.C. 7:27-22.16(e)]		[N.J.A.C. 7:27-22.16(e)]	
6	Control efficiency of the particulate control	None.	Other: Particulate Control efficiency –	Mone
	system from preconstruction permit =		Recordkeeping by manual logging of	A TOARC.
	95.5%. [N.J.A.C. 1:21-22.10(e)]		parameter once initially. The permittee	
			shall keep records of the manufacturer's	
			information showing the minimum design	
7	Marine Laure of court - 20001		efficiency. [N.J.A.C. 7:27-22.16(e)]	
,	from preconstruction permit IN I A C 7:27	Monitored by production records. [N.J.A.C.	Recordkeeping by manual logging of	None.
	22 16(e)]	1.21-22.10(0)]	parameter once per shift during operation.	
×	Maximum production sets from		[N.J.A.C. 7:27-22.16(o)]	
¢	representation production rate from	Monitored by production records. [N.J.A.C.	Recordkeeping by manual logging of	None.
	preconstruction permit <=/3 tons/hr.	7:27-22.16(0)]	parameter once per shift during operation.	
)	[14.J.A.C. 1.21-22.10[6]]		N.J.A.C. 7:27-22.16(e)]	
C C C C C C C C C C C C C C C C C C C	Control ethiciency covered by No 6 thorotoro amoint 1	Come and the Tart		

Control efficiency covered by No. 6, therefore original No. 1 not needed.

New Jersey Department of Environmental Protection Facility Specific Requirements

Subject Item Operating Scenario: OS1 106

Ref.

Finishing Baghouse – Cutting the pipe, grinding the bell and removal of san Reamer – Reaming Interior of Rework Pipe

	ω			2			_	#	TACT.
and Dry asphalt from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	to Coment Cond	[N.J.A.C. 7:27-22.16(a)]	permit application. PM10 <= 3.72 lb/hr.	Maximum emission limit from operating	<=3.72 lb/hr. [N.J.A.C. 7:27-22.16(e)]	preconstruction permit. TSP (cement)	Maximum emission limit from	Applicable Kequirement	Amiliantila di anni
Notic.	None			None.			None.	Monitoring Requirement	
None.			INOILE.	Mono		Nolle.	Man	Record Keeping Requirement	
None.			None.			None.	THE TANK THE PARTY THE PROPERTY OF THE PARTY	Submittal/Action Requirement	

New Jersey Department of Environmental Protection Facility Specific Requirements

Operating Scenario: OS2 Subject Item **U**6 Finishing Baghouse – Cutting the pipe, grinding the bell and removal of sand Bell Grinder – grinding the bell of the pipe

##	Applicable Requirement	Monitoring Requirement	Record Keeping Requirement	Submittal/Action Requirement
1	Maximum emission limit from	None.	None.	None
	preconstruction permit. TSP <= 0.053 lb/hr.			INCID.
	[N.J.A.C. 7:27-22.16(e)]			
Ŋ	Maximum emission limit from operating	None.	None.	None
	permit application. PM10 <=0.053 lb/hr.			1 TORKE
	[N.J.A.C. 7:27-22.16(a)]			
W	Raw material percentages from operating	None.	None.	None.
	permit application:			
	Iron = 99.98%			
	Sand = 0.02% [N.J.A.C. 7:27-22.16(e)]			